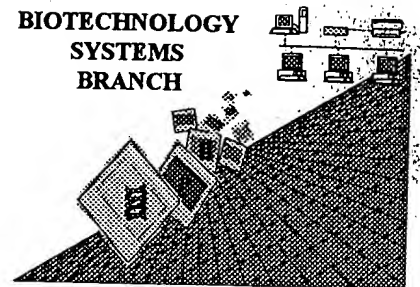


Draper

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

08/383,676

Art Unit / Team No. :

1646

Date Processed by STIC:

3/22/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

08/383,676

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 J Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
All text must be visible on page.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and uses spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) features section that some may be missing.
- 7 Wrong Designation Sequence(s) contain amino acid or nucleic acid designators which are not standard
representations as per the Sequence Rules (Please refer to paragraph 1.822)
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
 Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)
 (Sec. 1.823 of new Sequence Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
 TIME: 13:50:51

INPUT SET: S31123.raw

This Raw Listing contains the General
 Information Section and those Sequences
 containing ERRORS.

SEQUENCE LISTING

Does Not Comply
 Corrected Diskette Needed

1
 2
 3 (1) General Information:
 4
 5 (i) APPLICANT: Hauptman, et al.
 6
 7 (ii) TITLE OF INVENTION: TNF RECEPTORS, TNF BINDINGBINDING PROTEINS, AND DNAs CODIN
 8
 9 (iii) NUMBER OF SEQUENCES: 64 *92 shown (p.19)*
 10
 11 (iv) CORRESPONDENCE ADDRESS:
 12 (A) ADDRESSEE: John J. McDonnell
 13 (B) STREET: 300 S. Wacker Drive
 14 (C) CITY: Chicago
 15 (D) STATE: IL
 16 (E) COUNTRY: USA
 17 (F) ZIP: 60606
 18
 19 (v) COMPUTER READABLE FORM:
 20 (A) MEDIUM TYPE: Floppy disk
 21 (B) COMPUTER: IBM PC compatible
 22 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 23 (D) SOFTWARE: ASCII
 24
 25 (vi) CURRENT APPLICATION DATA: *383,676*
 26 (A) APPLICATION NUMBER: 08/484,312
 27 (B) FILING DATE: June 7, 1995
 28 (C) CLASSIFICATION:
 29
 30 (viii) ATTORNEY/AGENT INFORMATION:
 31 (A) NAME: John J. McDonnell
 32 (B) REGISTRATION NUMBER: 26,949
 33 (C) REFERENCE/DOCKET NUMBER: 98,385-A
 34
 35 (ix) TELECOMMUNICATION INFORMATION:
 36 (A) TELEPHONE: 312-913-0001
 37 (B) TELEFAX: 312-913-9808
 38

all item 3 on Enr summary sheet

*Suggestion:
 Consult sequence Rules for valid format*

ERRORED SEQUENCES FOLLOW:

39 (2) INFORMATION FOR SEQ ID NO:1:

RAW SEQUENCE LISTING

PATENT APPLICATION US/08/383,676

 DATE: 03/22/1999
 TIME: 13:50:52

INPUT SET: S31123.raw

40
 --> 41 (i) SEQUENCE CHARACTERISTICS: *all text must be visible*
 42 (A) LENGTH:1365 bases
 43 (B) TYPE:nucleic acid
 44 (C) STRANDEDNESS:single
 45 (D) TOPOLOGY:linear
 46
 47 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
 48
 49 ATGGGCCTCT CCACCGTGCC TGACCTGCTG CTGCCACTGG TGCTCCTGGA 50 GCTGTTGGTG GGAATATACC
 50

51 (2) INFORMATION FOR SEQ ID NO:2:
 52
 53 (i) SEQUENCE CHARACTERISTICS:
 --> 54 (A) LENGTH:483 bases
 55 (B) TYPE:nucleic acid
 56 (C) STRANDEDNESS:single
 57 (D) TOPOLOGY:linear
 58
 59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
 60
 61 GATAGTGTGT GTCCCAAGG AAAATATATC CACCCTCAAA ATAATTGAT 50 TTGCTGTACC AAGTGCCACA A
 62

63 (2) INFORMATION FOR SEQ ID NO:3:
 64
 65 (i) SEQUENCE CHARACTERISTICS:
 --> 66 (A) LENGTH:455 amino acids
 --> 67 (B) TYPE:polypeptide *the only valid response is "amino acid"*
 68
 --> 69 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
 70
 71 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu
 72 5 10 15
 73 Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu
 74 20 25 30
 75 Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro
 76 35 40 45
 77 Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr
 78 50 55 60
 79 Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro
 80 65 70 75
 81 Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr
 82 80 85 90
 83 Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys
 84 95 100 105
 85 Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
 86 110 115 120
 87 Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr
 88 125 130 135
 89 Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu
 90 140 145 150

insert hard returns after each cumulative base total
same error
add the mandatory subheading and response for all sequence types. This is a global error in the amino acid sequence.

RAW SEQUENCE LISTING PATENT APPLICATION US/08/383,676

DATE: 03/22/1999

TIME: 13:50:52

INPUT SET: S31123.raw

```

91  Asn Gly Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val
92                                155 160 165
93  Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val
94                                170 175 180
95  Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys
96                                185 190 195
97  Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser Gly Thr
98                                200 205 210
99  Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu Leu
100                               215 220 225
101 Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
102                               230 235 240
103 Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys
104                               245 250 255
105 Glu Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn
106                               260 265 270
107 Pro Ser Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe
108                               275 280 285
109 Ser Pro Val Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr
110                               290 295 300
111 Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala
112                               305 310 315
113 Pro Pro Tyr Gln Gly Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala
114                               320 325 330
115 Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys Trp Glu Asp Ser Ala
116                               335 340 345
117 His Lys Pro Gln Ser Leu Asp Thr Asp Asp Pro Ala Thr Leu Tyr
118                               350 355 360
119 Ala Val Val Glu Asn Val Pro Pro Leu Arg Trp Lys Glu Phe Val
120                               365 370 375
121 Arg Arg Leu Gly Leu Ser Asp His Glu Ile Asp Arg Leu Glu Leu
122                               380 385 390
123 Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln Tyr Ser Met Leu Ala
124                               395 400 405
125 Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala Thr Leu Glu Leu
126                               410 415 420
127 Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly Cys Leu Glu
128                               425 430 435
129 Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro Pro Ala
130                               440 445 450
131 Pro Ser Leu Leu Arg
132                               455
133

```

134 (2) INFORMATION FOR SEQ ID NO:4:

135

136 (i) SEQUENCE CHARACTERISTICS:

--> 137 (A) LENGTH:161 amino acids

--> 138 (B) TYPE:polypeptide

139

--> 140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

141

142 Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn

RAW SEQUENCE LISTING PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
TIME: 13:50:52

INPUT SET: S31123.raw

143		5		10		15
144	Ser Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn					
145		20		25		30
146	Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu					
147		35		40		45
148	Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu					
149		50		55		60
150	Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser					
151		65		70		75
152	Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg Lys Asn					
153		80		85		90
154	Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn					
155		95		100		105
156	Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu					
157		110		115		120
158	Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg					
159		125		130		135
160	Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu					
161		140		145		150
162	Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn					
163		155		160		
164						

165 (2) INFORMATION FOR SEQ ID NO:5:

166

167 (i) SEQUENCE CHARACTERISTICS:

--> 168 (A) LENGTH:157 bases

169 (B) TYPE:nucleic acid

170 (C) STRANDEDNESS:single

171 (D) TOPOLOGY:linear

172

173 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

174

175 CAGGGGAAA ATATTCACCC TCAAATAAT TCGATTTGCT GTACCAAGTG

176

50 CCACAAAGG AAACACTTGT TA

hard returns

✓

177 (2) INFORMATION FOR SEQ ID NO:6:

178

179 (i) SEQUENCE CHARACTERISTICS:

--> 180 (A) LENGTH:13 amino acids

--> 181 (B) TYPE:polypeptide

182

--> 183 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

184

185 Asp Ser Val Xaa Pro Gln Gly Lys Tyr Ile His Pro Gln

186

5

10

187

and add (D) TOPOLOGY: leading and response

188 (2) INFORMATION FOR SEQ ID NO:7:

189

190 (i) SEQUENCE CHARACTERISTICS:

--> 191 (A) LENGTH:11 amino acids

--> 192 (B) TYPE:polypeptide

same even

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/383,676DATE: 03/22/1999
TIME: 13:50:53

INPUT SET: S31123.raw

193
--> 194 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
195
196 Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
197 5 10
198

199 (2) INFORMATION FOR SEQ ID NO:8:
200
201 (i) SEQUENCE CHARACTERISTICS:
--> 202 (A) LENGTH:12 amino acids
--> 203 (B) TYPE:polypeptide
204
--> 205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
206
207 Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys
208 5 10
209

210 (2) INFORMATION FOR SEQ ID NO:9:
211
212 (i) SEQUENCE CHARACTERISTICS:
--> 213 (A) LENGTH:13 amino acids
--> 214 (B) TYPE:polypeptide
215
--> 216 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
217
218 Tyr Ile His Pro Gln Xaa Asn Ser Ile Xaa Xaa Xaa Lys
219

220 (2) insert this number in all sequence - (2) remove
221 (11) INFORMATION FOR SEQ ID NO:10:
222
223 (i) SEQUENCE CHARACTERISTICS:
--> 224 (A) LENGTH:14 amino acids
--> 225 (B) TYPE:polypeptide
226
--> 227 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
228
229 Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn Asn Lys
230 5 10
231

--> 232 (2) INFORMATION FOR SEQ ID NO:11:
233
234 (i) SEQUENCE CHARACTERISTICS:
--> 235 (A) LENGTH:15 amino acids
--> 236 (B) TYPE:polypeptide
237
--> 238 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
239
240 Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp Arg
241 5 10 15
242

INPUT SET: S31123.raw

243 (2) INFORMATION FOR SEQ ID NO:12:
244
245 (i) SEQUENCE CHARACTERISTICS:
--> 246 (A) LENGTH:13 amino acids
--> 247 (B) TYPE:polypeptide
248
--> 249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
250
251 Gly Thr Tyr Ley Tyr Asn Asp Cys Pro Gly Pro Gly Gln
252 5 10
253

254 (2) INFORMATION FOR SEQ ID NO:13:
255
256 (i) SEQUENCE CHARACTERISTICS:
--> 257 (A) LENGTH:13 amino acids
--> 258 (B) TYPE:polypeptide
259
--> 260 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
261
262 Glu Met Gly Gln Val Glu Ile Ser Xaa Xaa Xaa Val Asp
263 5 10
264

265 (2) INFORMATION FOR SEQ ID NO:14:
266
267 (i) SEQUENCE CHARACTERISTICS:
--> 268 (A) LENGTH:20 amino acids
--> 269 (B) TYPE:polypeptide
270
--> 271 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
272
273 Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp Arg
274 5 10 15
275 Asp Thr Val Cys Gly
276 20
277

278 (2) INFORMATION FOR SEQ ID NO:15:
279
280 (i) SEQUENCE CHARACTERISTICS:
--> 281 (A) LENGTH:19 amino acids
--> 282 (B) TYPE:polypeptide
283
--> 284 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
285
286 Tyr Ile His Pro Gln Xaa Asn Ser Ile Cys Cys Thr Lys Cys His
287 5 10 15
288 Lys Gly Xaa Tyr
289
290

291 (2) INFORMATION FOR SEQ ID NO:16:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/383,676DATE: 03/22/1999
TIME: 13:50:54

INPUT SET: S31123.raw

292
293 (i) SEQUENCE CHARACTERISTICS:
--> 294 (A) LENGTH:18 amino acids
--> 295 (B) TYPE:polypeptide
296
--> 297 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
298
299 Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr
300 5 10 15
301 Xaa Xaa Arg
302
303

304 (2) INFORMATION FOR SEQ ID NO:17:
305
306 (i) SEQUENCE CHARACTERISTICS:
--> 307 (A) LENGTH:14 amino acids
--> 308 (B) TYPE:polypeptide
309
--> 310 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
311
312 Gln Asn Thr Val Cys Thr Xaa His Ala Gly Phe Phe Leu Arg
313 5 10
314

315 (2) INFORMATION FOR SEQ ID NO:18:
316
317 (i) SEQUENCE CHARACTERISTICS:
--> 318 (A) LENGTH:14 amino acids
--> 319 (B) TYPE:polypeptide
320
--> 321 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
322
323 Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn
324 5 10
325

326 (2) INFORMATION FOR SEQ ID NO:19:
327
328 (i) SEQUENCE CHARACTERISTICS:
--> 329 (A) LENGTH:13 amino acids
--> 330 (B) TYPE:polypeptide
331
--> 332 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
333
334 Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln
335 5 10
336

481 (2) INFORMATION FOR SEQ ID NO:32:
482
483 (i) SEQUENCE CHARACTERISTICS:
--> 484 (A) LENGTH:14 amino acids

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/383,676

DATE: 03/22/1999

TIME: 13:50:54

INPUT SET: S31123.raw

--> 485 (B) TYPE: polypeptide
486
--> 487 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:
488
489 Glu Cys Gly Ser Gly Ser Phe Thr Ala Ser Glu Asn Asn Lys
490 5 10
491

492 (2) INFORMATION FOR SEQ ID NO:33:
493
494 (i) SEQUENCE CHARACTERISTICS:
--> 495 (A) LENGTH:14 amino acids
--> 496 (B) TYPE: polypeptide
497
--> 498 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:
499
500 Glu Cys Gly Ser Gly Ser Phe Thr Ala Ser Cys Asn Asn Lys
501 5 10
502

647 (2) INFORMATION FOR SEQ ID NO:46:
648
649 (i) SEQUENCE CHARACTERISTICS:
--> 650 (A) LENGTH:51 amino acids
--> 651 (B) TYPE: polypeptide
652
--> 653 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:
654
655 Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr
656 5 10 15
657 Lys Cys His Lys Gly Thr Tyr Ley Tyr Asn Asp Cys Pro Gly Pro
658 20 25 30
659 Gly Gln Asp Thr Asp Cys Arg Gly Cys Glu Ser Gly Ser Phe Thr
660 35 40 45
661 Ala Ser Glu Asn Asn Lys
662 50
663

664 (2) INFORMATION FOR SEQ ID NO:47:
665
666 (i) SEQUENCE CHARACTERISTICS:
--> 667 (A) LENGTH:158 bases
668 (B) TYPE:nucleic acid
669 (C) STRANDEDNESS:single
670 (D) TOPOLOGY:linear
671
672 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:
673
674 CAGGGGAAAT ATATTCACCC TCAAATAAT TCGATTTCGT GTACCAAGTC 50 GCACAAAGGA ACCTACTTGT A
675

762 (2) INFORMATION FOR SEQ ID NO:55:
763

Hand return

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/383,676DATE: 03/22/1999
TIME: 13:50:54

INPUT SET: S31123.raw

--> 764 (i) SEQUENCE CHARACTERISTICS:
765 (A) LENGTH:63 bases
766 (B) TYPE:nucleic acid
767 (C) STRANDEDNESS:single
768 (D) TOPOLOGY:linear
769
770 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:
771
772 AGCTCTAGAG ATTTCGCGGCC GCTCGAGGTA CCGGATCCAT CGATGTCGAC 50 CTGCAGAAGC TTG
773

774 (2) INFORMATION FOR SEQ ID NO:56:
775
776 (i) SEQUENCE CHARACTERISTICS:
--> 777 (A) LENGTH:64 bases
778 (B) TYPE:nucleic acid
779 (C) STRANDEDNESS:single
780 (D) TOPOLOGY:linear
781
782 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:
783
784 CTAGCAAGCT TCTGCAGGTC GACATCGATG GATCCGGTAC CTCGAGCGGC 50 CGCGAATTCT CTAG
785

810 (2) INFORMATION FOR SEQ ID NO:59:
811
812 (i) SEQUENCE CHARACTERISTICS:
--> 813 (A) LENGTH:81 bases
814 (B) TYPE:nucleic acid
815 (C) STRANDEDNESS:single
816 (D) TOPOLOGY:linear
817
818 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:
819
820 CACAGTCGAC TTACATTTGC TTCTGACACA ACTGTGTTCA CTAGCAACCT 50 CAAACAGACA CCATGGGCCT C
821

870 (2) INFORMATION FOR SEQ ID NO:64:
871
872 (i) SEQUENCE CHARACTERISTICS:
--> 873 (A) LENGTH:30 bases 18 shown
874 (B) TYPE:nucleic acid
875 (C) STRANDEDNESS:single
876 (D) TOPOLOGY:linear
877
878 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:
879
880 GTCCAATTAT GTCACACC 18
881

882 (2) INFORMATION FOR SEQ ID NO:65:
883
884 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
TIME: 13:50:55

INPUT SET: S31123.raw

```

--> 885 (A) LENGTH:1334 bases
886 (B) TYPE:nucleic acid
887 (C) STRANDEDNESS:single
888 (D) TOPOLOGY:linear
889
890 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:
891
892 GAATTCTCTG GACTGAGGCT CCAGTTCTGG CCTTTGGGGT TCAAGATCAC 50 TGGGACCAGG CCGTGAT
893
--> 894 TAGCTGTCTG GC 212
895
896 ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA CTG GTG TTC 257
897 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu
898 5 10 15
899
900 CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG 302
901 Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu
902 20 25 30
903
904 GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC 347
905 Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro
906 35 40 45
907
908 CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC 392
909 Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr
910 50 55 60
911
912 AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG 437
913 Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro
914 65 70 75
915
916 GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC 482
917 Gly Gln Asp The Asp Cys Arg Glu Cys Gly Ser Gly Ser Phe Thr
918 80 85 90
919
920 GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC 527
921 Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys
922 95 100 105
923
924 CGA AAG GAA ATC GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC 572
925 Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
926 110 115 120
927
928 CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT 617
929 Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr
930 125 130 135
931
932 TGG AGT GAA AAC CTTTTC CAG TGC TTC AAT TGC AGC CTC TGC CTC 662
933 Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu
934 140 145 150
935
936 AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG 707
937 Asn Gly Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val

```

proceed as shown in submitted file - if this represents a gap in the sequence, separate sequences must be shown (see 1.822(o) of sequence rules for explanation)

RAW SEQUENCE LISTING PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
TIME: 13:50:55

INPUT SET: S31123.raw

938		155		160		165	
939							
940	TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC	752					
941	Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val						
942		170		175		180	
943							
944	TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC AGG AAG TTG TGC	797					
945	Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys						
946		185		190		195	
947							
948	CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC	842					
949	Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser Gly Thr						
950		200		205		210	
951							
952	ACA GTG CTG TTG CCC CTG GTC ATT TTC TTT GGT CTT TGC CTT TTA	887					
953	Thr Val Leu Leu ProLeu Val Ile Phe Phe Gly Leu Cys Leu Leu						
954		215	<i>gap?</i>	220		225	
955							
956	TCC CTC CTC TTC ATT GGT TTA ATG TAT CGC TAC CAA CGG TGG AAG	932					
957	Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys						
958		230		235		240	
959							
960	TCC AAG CTC TAC TCC ATT GTT TGT GGG AAA TCG ACA CCT GAA AAA	977					
961	Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys						
962		245		250		255	
963							
964	GAG GGG GAG CTT GAA GGA ACT ACT ACT AAG CCC CTG GCC CCA AAC	1022					
965	Glu Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn						
966		260		265		270	
967							
968	CCA AGC TTC AGT CCC ACT CCA GGC TTC ACC CCC ACC CTG GGC TTC	1067					
969	Pro Ser Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe						
970		275		280		285	
971							
972	AGT CCC GTG CCC AGT TCC ACC TTC ACC TCC AGC TCC ACC TAT ACC	1112					
973	Ser Pro Val Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr						
974		290		295		300	
975							
976	CCC GGT GAC TGT CCC AAC TTT GCG GCT CCC CGC AGA GAG GTG GCA	1157					
977	Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala						
978		305		310		315	
979							
980	CCA CCC TAT CAG GGG GCT GAC CCC ATC CTT GCG ACA GCC CTC GCC	1202					
981	Pro Pro Tyr Gln Gly Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala						
982		320		325		330	
983							
984	TCC GAC CCC ATC CCC AAC CCC CTT CAG AAG TGG GAG GAC AGC GCC	1247					
985	Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys Trp Glu Asp Ser Ala						
986		335		340		345	
987							
988	CAC AAG CCA CAG AGC CTA GAC ACT GAT GAC CCC GCG ACG CTG TAC	1292					
989	His Lys Pro Gln Ser Leu Asp Thr Asp Asp Pro Ala Thr Leu Tyr						
990		350		355		360	

RAW SEQUENCE LISTING

PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
TIME: 13:50:55

INPUT SET: S31123.raw

```

991
992 GCC GTG GTG GAG AAC GTG CCC CCG TTG CGC TGG AAGGAATTC      1334
993 Ala Val Val Glu Asn Val Pro Pro Leu Arg Trp
994                      365                      370
995
996

```

```

997 (2) INFORMATION FOR SEQ ID NO:66:
998
999 (i) SEQUENCE CHARACTERISTICS:
--> 1000 (A) LENGTH: 371 amino acids
--> 1001 (B) TYPE: polypeptide
1002
--> 1003 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:
1004
1005 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu
1006                      5                      10                      15
1007 Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu
1008                      20                      25                      30
1009 Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro
1010                      35                      40                      45
1011 Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr
1012                      50                      55                      60
1013 Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro
1014                      65                      70                      75
1015 Gly Gln Asp The Asp Cys Arg Glu Cys Gly Ser Gly Ser Phe Thr
1016                      80                      85                      90
1017 Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys
1018                      95                      100                     105
1019 Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
1020                      110                     115                     120
1021 Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr
1022                      125 gap?                     130                     135
1023 Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu
1024                      140                     145                     150
1025 Asn Gly Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val
1026                      155                     160                     165
1027 Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val
1028                      170                     175                     180
1029 Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys
1030                      185                     190                     195
1031 Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser Gly Thr
1032                      200                     205                     210
1033 Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu Leu
1034                      215 gap?                     220                     225
1035 Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
1036                      230                     235                     240
1037 Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys
1038                      245                     250                     255
1039 Glu Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn
1040                      260                     265                     270
1041 Pro Ser Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe
1042                      275                     280                     285

```

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/383,676DATE: 03/22/1999
TIME: 13:50:56

INPUT SET: S31123.raw

```
1043 Ser Pro Val Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr
1044                               290                               295       300
1045 Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala
1046                               305                               310       315
1047 Pro Pro Tyr Gln Gly Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala
1048                               320                               325       330
1049 Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys Trp Glu Asp Ser Ala
1050                               335                               340       345
1051 His Lys Pro Gln Ser Leu Asp Thr Asp Asp Pro Ala Thr Leu Tyr
1052                               350                               355       360
1053 Ala Val Val Glu Asn Val Pro Pro Leu Arg Trp
1054                               365                               370
1055
```

1056 (2) INFORMATION FOR SEQ ID NO:67:

1057

1058 (i) SEQUENCE CHARACTERISTICS:

--> 1059 (A) LENGTH:6464 bases

1060 (B) TYPE:nucleic acid

1061 (C) STRANDEDNESS:single

1062 (D) TOPOLOGY:linear

1063

1064 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

1065

```
1066 TCGACATTGA TTATTGACTA GTTATTAATA GTAATCAATT ACGGGGTCAT 50
1067 TAGTTCATAG CCCATATATG GAGTTCGCGG TTACATAACT TACGGTAAAT 100 GGCCCGCCTC GCTGACCGCC C
1068 CTGGCATTAT GCCCAGTACA TGACCTTATG GGACTTTCCT ACTIGGCAGT 350 ACATCTACGT ATTAGTCATC G
1069 AGAACCCACT GCTTAACTGG CTTATCGAAA TTAATACGAC TCACATATAGG 650 GAGACCCAAG CTTCTGCAGG T
1070 AGGTTTTACT TGCTTTAAAA AACCTCCAC ACCTCCCCCT GAACCTGAAA 1250 CATAAAATGA ATGCAATTGT T
1071 GTTAAAAGAT GTATCCTGGA CCTGCCAGAC CTGGCCATTC ACGTAAACAG 1550 AAGATTCCGC CTCAAGTTCC G
1072 CCCACCACCT GGCCCGCCC CGTTGAGGAC AGAAGAAACC CCGGCAGCC 1850 GCAGCCAAGG CGGACGGGTA G
1073 CGGGCCACGC CGGACTGGGC GGGCCCGGCC TGGTGGAGG GGAGTCTGAC 2150 CTCGTGGAGG CGGGCCTCT G
1074 TGGCTGGATT GGGTTAGGGA AACCAGGCG GTTCGCTGAA TCGGGTCGAG 2450 CACTTGGCGG AGACGCGCGG G
1075 GAACGAGTTC AAGTACTTCC AAAGAATGAC CACCACCTCC TCAGTGGAAG 2750 GTAAACAGAA CCTGGTGATT A
1076 AGGCCATCTC AGACTCTTTG TGACAAGGAT CATGCAGGAA TTTGAAAGTG 3050 ACACGTTCTT CCCAGAAATT G
1077 GCAGAGCTAG AACTCAGACT TTAAAGAAAA TTAGATCAAA GTAGAGACTG 3650 AATTATTCTG CACATCAGAC T
1078 ATGCATCTCA ATTAGTCAGC AACCAGGTGT GGAAAGTCCC CAGGCTCCCC 4000 AGCAGGCAGA AGTATGCAAA G
1079 CTGTAGCGGC GCATTAAGCG CGGCGGGTGT GGTGGTTACG CGCAGCGTGA 4255 CCGCTACACT TGCCAGCGCC C
1080 GTCGCCCTTA TTCCCTTTTT TGCGGCATTT TGCCTTCCTG TTTTGTCTCA 4850 CCCAGAAACG CTGGTGAAAG T
1081 GAAAAGCATC TTACGGATGG CATGACAGTA AGAGKATTAT GCAGTGCTGC 5150 CATAACCATG AGTGATAACA C
1082 TGGATGGAGG CGGATAAAGT TGCAGGACCA CTTCTGCGCT CGGCCCTTCC 5450 GGCTGGCTGG TTTATTGCTG A
1083 AAAAGGATCT AGGTGAAGAT CCTTTTGTAT AATCTCATGA CCAAATCCC 5750 TTAACGTGAG TTTTCGTTCC A
1084 GTAGCACCGC CTACATACCT CGCTCTGCTA ATCCTGTTAC CAGTGGCTGC 6100 TGCCAGTGGC GATAAGTCGT G
1085 GGAAACGCCT GGTATCTTTA TAGTCCTGTC GGGTTTCGCC ACCTCTGACT 6400 TGAGCGTCGA TTTTGTGAT G
1086
```

1087 (2) INFORMATION FOR SEQ ID NO:68:

1088

1089 (i) SEQUENCE CHARACTERISTICS:

--> 1090 (A) LENGTH:2173 bases

1091 (B) TYPE:nucleic acid

1092 (C) STRANDEDNESS:single

1093 (D) TOPOLOGY:linear

RAW SEQUENCE LISTING PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
TIME: 13:50:56

INPUT SET: S31123.raw

1094
1095 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:
1096
1097 GAATTCCTTT TCTCCGAGTT TTCTGAACTC TGGCTCATGA TCGGGCTTAC 50 TGGATACGAG AATCCTG
1098
--> 1099 ATG GGT CTC CCC ATC GTG CCT GGC CTG CTG CTG TCA CTG GTG CTC 289
1100 Met Gly Leu Pro Ile Val Pro Gly Leu Leu Leu Ser Leu Val Leu
1101 5 10 15
1102
1103 CTG GCT CTG CTG ATG GGG ATA CAC CCA TCA GGG GTC ACC GGA CTG 334
1104 Leu Ala Leu Leu Met Gly Ile His Pro Ser Gly Val Thr Gly Leu
1105 20 25 30
1106
1107 GTT CCT TCT CTT GGT GAC CGG GAG AAG AGG GAT AAT TTG TGT CCC 379
1108 Val Pro Ser Leu Gly Asp Ara Glu Lys Arg Asp Asn Leu Cys Pro
1109 35 40 45
1110
1111 CAG GGA AAG TAT GCC CAT CCA AAG AAT AAT TCC ATC TGC TGC ACC 424
1112 Gln Gly Lys Tyr Ala His Pro Lys Asn Asn Ser Ile Cys Cys Thr
1113 50 55 60
1114
1115 AAG TGC CAC AAA GGA ACC TAC TTG GTG AGT GAC TGT CCA AGC CCA 469
1116 Lys Cys His Lys Gly Thr Tyr Leu Val Ser Asp Cys Pro Ser Pro
1117 65 70 75
1118
1119 GGG CAG GAA ACA GTC TGC GAG CTC TCT CAT AAA GGC ACC TTT ACA 514
1120 Gly Gln Glu Thr Val Cys Glu Leu Ser His Lys Gly Thr Phe Thr
1121 80 85 90
1122
1123 GCT TCG CAG AAC CAC GTC AGA CAG TGT CTC AGT TGC AAG ACA TGT 559
1124 Ala Ser Gln Asn His Val Arg Gln Cys Leu Ser Cys Lys Thr Cys
1125 95 100 105
1126
1127 CGG AAA GAA ATG TTC CAG GTG GAG ATT TCT CCT TGC AAA GCT GAC 604
1128 Arg Lys Glu Yet Phe Gln Val Glu Ile Ser Pro Cys Lys Ala Asp
1129 110 115 120
1130
--> 1131 ATG GAC ACC GTG TGT GGC TGC AAG *invalid nucleotides and di-nucleotides* CAA TTC CAG CGC TAC 649
1132 Met Asp Thr Val Cys Gly Cys Lys Lys Asn Gln Phe Gln Arg Tyr
1133 125 130 135
1134 *use upper-case letters*
1135 CTG AGT GAG ACG CAT TTC CAG TGT GTG GAC TGC AGC CCC TGC TTC 694
1136 Leu Ser Glu Thr His Phe Gln Cys Val Asp Cys Ser Pro Cys Phe
1137 140 145 150
1138
1139 AAT GGC ACC GTG ACA ATC CCC TGT AAG GAG AAA CAG AAC ACC GTG 739
1140 Asn Gly Thr Val Thr Ile Pro Cys Lys Glu Lys Gln Asn Thr Val
1141 155 160 165
1142
1143 TGT AAC TGC CAC GCA GGA TTC TTT CTA AGC GGA AAT GAG TGC ACC 784
1144 Cys Asn Cys His Ala Gly Phe Phe Leu Ser Gly Asn Glu Cys Thr
1145 170 175 180
1146

RAW SEQUENCE LISTING PATENT APPLICATION US/08/383,676

DATE: 03/22/1999

TIME: 13:50:56

INPUT SET: S31123.raw

--> 1147 CCT TGC AGC CAC TGC AAG AAA AAT CAG GAA TGT ATG AAG CTG TGC 829
 1148 Pro Cys Ser His Cys Lys Lys Asn Gln Glu Cys Met Lys Leu Cys
 1149 185 190 195
 1150
 1151 CTA CCT CCA GTT GCA AAT GTC ACA AAC CCC CAG GAC TCA GGT ACT 874
 1152 Leu Pro Pro Val Ala Asn Val Thr Asn Pro Gln Asp Ser Gly Thr
 1153 200 205 210
 1154
 1155 GCC GGC CTG TTG CCT CTG GTT ATC TTC CTA GGT CTT TGC CTT TTA 919
 1156 Ala Val Leu Leu Pro Leu Val Ile Phe Leu Gly Leu Cys Leu Leu
 1157 215 220 225
 1158
 1159 TTC TTT ATC TGC ATC AGT CTA CTG TGC CGA TAT CCC CAG TGG AGG 964
 1160 Phe Phe Ile Cys Ile Ser Leu Leu Cys Arg Tyr Pro Gln Trp Arg
 1161 230 235 240
 1162
 1163 CCC AGG GTC TAC TCC ATC ATT TGT AGG GAT TCA GCT CCT GTC AAA 1009
 1164 Pro Arg Val Tyr Ser Ile Ile Cys Arg Asp Ser Ala Pro Val Lys
 1165 245 250 255
 1166
 1167 GAG GTG GAG GGT GAA GGA ATT GTT ACT AAG CCC CTA ACT CCA GCC 1054
 1168 Glu Val Glu Gly Glu Gly Ile Val Thr Lys Pro Leu Thr Pro Ala
 1169 260 265 270
 1170
 1171 TCT ATC CCA GCC TTC AGC CCC AAC CCC GGC TTC AAC CCC ACT CTG 1099
 1172 Ser Ile Pro Ala Phe Ser Pro Asn Pro Gly Phe Asn Pro Thr Leu
 1173 275 280 285
 1174
 1175 GGC TTC AGC ACC ACC CCA CGC TTC AGT CAT CCT GTC TCC AGT ACC 1144
 1176 Gly Phe Ser Thr Thr Pro Arg Phe Ser His Pro Val Ser Ser Thr
 1177 290 295 300
 1178
 1179 CCC ATC AGC CCC GTC TTC GGT CCT AGT AAC TGG CAC AAC TTC GTG 1189
 1180 Pro Ile Ser Pro Val Phe Gly Pro Ser Asn Trp His Asn Phe Val
 1181 305 310 315
 1182
 1183 CCA CCT GTA AGA GAG GTG GTC CCA ACC CAG GGT GCT GAC CCT CTC 1234
 1184 Pro Pro Val Arg Glu Val Val Pro Thr Gln Gly Ala Asp Pro Leu
 1185 320 325 330
 1186
 1187 CTC TAC GGA TCC CTC AAC CCT GTG CCA ATC CCC GCC CCT GTT CGG 1279
 1188 Leu Tyr Gly Ser Leu Asn Pro Val Pro Ile Pro Ala Pro Val Arg
 1189 335 340 345
 1190
 1191 AAA TGG GAA GAC GTC GTC GCG GCC CAG CCA CAA CGG CTT GAC ACT 1324
 1192 Lys Trp Glu Asp Val Val Ala Ala Gln Pro Gln Arg Leu Asp Thr
 1193 350 355 360
 1194
 1195 GCA GAC CCT GCG ATG CTG TAT GCT GTG GTG GAT GGC GTG CCT CCG 1369
 1196 Ala Asp Pro Ala Met Leu Tyr Ala Val Val Asp Gly Val Pro Pro
 1197 365 370 375
 1198
 1199 ACA CGC TGG AAG GAG TTC ATG CGG CTC CTG GGG CTG AGC GAG CAC 1414

General for use as the sequence are "N" and explained in (ix) FEATURE section

RAW SEQUENCE LISTING PATENT APPLICATION US/08/383,676

 DATE: 03/22/1999
 TIME: 13:50:57

INPUT SET: S31123.raw

```

1200 Thr Arg Trp Lys Glu Phe Met Arg Leu Leu Gly Leu Ser Glu His
1201                               380                               385                               390
1202
1203 GAG ATC GAG CGG TTG GAG CTG CAG AAC GGG CGT TGC CTC CGC GAG 1459
1204 Glu Ile Glu Arc Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu
1205                               395                               400                               405
1206
1207 GCT CAT TAC AGC ATG CTG GAA GCC TGG CGG CGC CGC ACA CCG CGA 1504
1208 Ala His Tyr Ser Met Leu Glu Ala Trp Arg Arg Arg Thr Pro Arg
1209                               410                               415                               420
1210
1211 CAC GAG GCC ACG CTG GAC GTA GTG GGC CGC GTG CTT TGC GAC ATG 1549
1212 His Glu Ala Thr Leu Asp Val Val Gly Arg Val Leu Cys Asp Met
1213                               425                               430                               435
1214
1215 AAC CTG CGT GGC TGC CTG GAG AAC ATC CGC GAG ACT CTA GAA AGC 1594
1216 Asn Leu Arg Gly Cys Leu Glu Asn Ile Arg Glu Thr Leu Glu Ser
1217                               440                               445                               450
1218
1219 CCT GCC CAC TCG TCC ACG ACC CAC CTC CCG CGA TAAGGCCACA 1637
1220 Pro Ala His Ser Ser Thr Thr His Leu Pro Arg
1221                               455                               460
1222
1223 CCCCCACCTC AGGAACGGGA CTCGAAGGAC CATCCTGCTA GATGCCCTGC 1687 TTCCCTGTGA ACCTCCT
--> 1224 GGGAAAGTGTG CCATCTGCTC CCAGACAGCT GAGGGTGCCA AAAGCCAGGA 1887
1225 GAGGTGATTG TGGAGAAAAA GCACAATCTA TCTGATACCC ACTTGGGATG 1937
1226 CAAGGACCCA AACAAAGCTT CTCAGGGCCT CCTCAGTTGA TTTCTGGGCC 1987
1227 CTTTTCACAG TAGATAAAAC AGTCTTTGTA TTGATTATAT CACACTAATG 2037
1228 GATGAACGGT TGAACCTCCCT AAGGTAGGGG CAAGCACAGA ACAGTGGGGT 2087
1229 CTCCAGCTGG AGCCCCCGAC TCTTGTAAT ACACTAAAAA TCTAAAAGTG 2137
1230 AAAAAAAAAA AAAAAAAAAA AAAAAAAAAAG GAATTC 2173
1231

```

```

1232 (2) INFORMATION FOR SEQ ID NO:69:
1233
1234 (i) SEQUENCE CHARACTERISTICS:
--> 1235 (A) LENGTH:461 amino acids
--> 1236 (B) TYPE:polypeptide
1237
--> 1238 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:
1239
1240 Met Gly Leu Pro Ile Val Pro Gly Leu Leu Leu Ser Leu Val Leu
1241                               5                               10                               15
1242 Leu Ala Leu Leu Met Gly Ile His Pro Ser Gly Val Thr Gly Leu
1243                               20                               25                               30
1244 Val Pro Ser Leu Gly Asp Ara Glu Lys Arg Asp Asn Leu Cys Pro
1245                               35                               40                               45
1246
1247 Gln Gly Lys Tyr Ala His Pro Lys Asn Asn Ser Ile Cys Cvs Thr
1248                               50                               55                               60
1249 Lys Cys His Lys Gly Thr Tyr Leu Val Ser Asp Cys Pro Ser Pro
1250                               65                               70                               75
1251 Gly Gln Glu Thr Val Cys Glu Leu Ser His Lys Gly Thr Phe Thr

```

RAW SEQUENCE LISTING PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
TIME: 13:50:57

INPUT SET: S31123.raw

1252		80		85		90
1253	Ala Ser Gln Asn His Val Arg Gln Cys Leu Ser Cys Lys Thr Cys					
1254		95		100		105
1255	Arg Lys Glu Yet Phe Gln Val Glu Ile Ser Pro Cys Lys Ala Asp					
1256		110		115		120
1257	Met Asp Thr Val Cys Gly Cys Lys Lys Asn Gln Phe Gln Arg Tyr					
1258		125		130		135
1259	Leu Ser Glu Thr His Phe Gln Cys Val Asp Cys Ser Pro Cys Phe					
1260		140		145		150
1261	Asn Gly Thr Val Thr Ile Pro Cys Lys Glu Lys Gln Asn Thr Val					
1262		155		160		165
1263	Cys Asn Cys His Ala Gly Phe Phe Leu Ser Gly Asn Glu Cys Thr					
1264		170		175		180
1265	Pro Cys Ser His Cys Lys Lys Asn Gln Glu Cys Met Lys Leu Cys					
1266		185		190		195
1267	Leu Pro Pro Val Ala Asn Val Thr Asn Pro Gln Asp Ser Gly Thr					
1268		200		205		210
1269	Ala Val Leu Leu Pro Leu Val Ile Phe Leu Gly Leu Cys Leu Leu					
1270		215		220		225
1271	Phe Phe Ile Cys Ile Ser Leu Leu Cys Arg Tyr Pro Gln Trp Arg					
1272		230		235		240
1273	Pro Arg Val Tyr Ser Ile Ile Cys Arg Asp Ser Ala Pro Val Lys					
1274		245		250		255
1275	Glu Val Glu Gly Glu Gly Ile Val Thr Lys Pro Leu Thr Pro Ala					
1276		260		265		270
1277	Ser Ile Pro Ala Phe Ser Pro Asn Pro Gly Phe Asn Pro Thr Leu					
1278		275		280		285
1279	Gly Phe Ser Thr Thr Pro Arg Phe Ser His Pro Val Ser Ser Thr					
1280		290		295		300
1281	Pro Ile Ser Pro Val Phe Gly Pro Ser Asn Trp His Asn Phe Val					
1282		305		310		315
1283	Pro Pro Val Arg Glu Val Val Pro Thr Gln Gly Ala Asp Pro Leu					
1284		320		325		330
1285	Leu Tyr Gly Ser Leu Asn Pro Val Pro Ile Pro Ala Pro Val Arg					
1286		335		340		345
1287	Lys Trp Glu Asp Val Val Ala Ala Gln Pro Gln Arg Leu Asp Thr					
1288		350		355		360
1289	Ala Asp Pro Ala Met Leu Tyr Ala Val Val Asp Gly Val Pro Pro					
1290		365		370		375
1291	Thr Arg Trp Lys Glu Phe Met Arg Leu Leu Gly Leu Ser Glu His					
1292		380		385		390
1293	Glu Ile Glu Arc Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu					
1294		395		400		405
1295	Ala His Tyr Ser Met Leu Glu Ala Trp Arg Arg Arg Thr Pro Arg					
1296		410		415		420
1297	His Glu Ala Thr Leu Asp Val Val Gly Arg Val Leu Cys Asp Met					
1298		425		430		435
1299	Asn Leu Arg Gly Cys Leu Glu Asn Ile Arg Glu Thr Leu Glu Ser					
1300		440		445		450
1301	Pro Ala His Ser Ser Thr Thr His Leu Pro Arg					
1302		455		460		
1303						

RAW SEQUENCE LISTING PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
TIME: 13:50:58

INPUT SET: S31123.raw

```

1413
1414 (i) SEQUENCE CHARACTERISTICS:
--> 1415 (A) LENGTH: 340 amino acids
--> 1416 (B) TYPE: polypeptide
1417
--> 1418 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:
1419
1420 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu
1421                      5                      10                      15
1422 Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu
1423                      20                      25                      30
1424 Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro
1425                      35                      40                      45
1426
1427 Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr
1428                      50                      55                      60
1429 Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro
1430                      65                      70                      75
1431 Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr
1432                      80                      85                      90
1433 Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys
1434                      95                      100                     105
1435 Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
1436                      110                     115                     120
1437 Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr
1438                      125                     130                     135
1439 Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu
1440                      140                     145                     150
1441 Asn Gly Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val
1442                      155                     160                     165
1443 Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val
1444                      170                     175                     180
1445 Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys
1446                      185                     190                     195
1447 Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser Gly Thr
1448                      200                     205                     210
1449 Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu Leu
1450                      215                     220                     225
1451 Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
1452                      230                     235                     240
1453 Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys
1454                      245                     250                     255
1455 Glu Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn
1456                      260                     265                     270
1457 Pro Ser Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe
1458                      275                     280                     285
1459 Ser Pro Val Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr
1460                      290                     295                     300
1461 Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala
1462                      305                     310                     315
1463 Pro Pro Tyr Gln Gly Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala
1464                      320                     325                     330
1465 Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys

```

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/383,676DATE: 03/22/1999
TIME: 13:50:58

INPUT SET: S31123.raw

1466
1467
1468

335

340

1469 (2) INFORMATION FOR SEQ ID NO:72:
1470
1471 (i) SEQUENCE CHARACTERISTICS:
1472 (A) LENGTH:19 bases
1473 (B) TYPE:nucleic acid
1474 (C) STRANDEDNESS:single
1475 (D) TOPOLOGY:linear
1476
1477 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:
1478
1479 GTACTTGAAC TCGTTCCTG
1480
1481
1482
1483
1484
1485
1486
1487

*last sequence in
file*

19

SEQUENCE VERIFICATION REPORT

PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
TIME: 13:50:58

INPUT SET: S31123.raw

Line	Error	Original Text
9	Number of Sequences (64) Doesn't Equal Actual Count (71)	(iii) NUMBER OF SEQUENCES:64
26	Wrong application Serial Number	(A) APPLICATION NUMBER:08/484,312
42	Entered (1365) and Calc. Seq. Length (0) differ	(A) LENGTH:1365 bases
54	Entered (483) and Calc. Seq. Length (0) differ	(A) LENGTH:483 bases
66	Entered (455) and Calc. Seq. Length (0) differ	(A) LENGTH:455 amino acids
67	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
69	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
69	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
137	Entered (161) and Calc. Seq. Length (0) differ	(A) LENGTH:161 amino acids
138	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
140	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
140	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
168	Entered (157) and Calc. Seq. Length (0) differ	(A) LENGTH:157 bases
180	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH:13 amino acids
181	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
183	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
183	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
191	Entered (11) and Calc. Seq. Length (0) differ	(A) LENGTH:11 amino acids
192	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
194	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
194	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
202	Entered (12) and Calc. Seq. Length (0) differ	(A) LENGTH:12 amino acids
203	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
205	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
205	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
213	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH:13 amino acids
214	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
216	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
216	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
224	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH:14 amino acids
225	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
227	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
227	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
227	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
232	Sequence * missing	(12) INFORMATION FOR SEQ ID NO:11:
235	Entered (15) and Calc. Seq. Length (0) differ	(A) LENGTH:15 amino acids
236	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
238	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
238	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
246	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH:13 amino acids
247	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
249	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
249	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
257	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH:13 amino acids
258	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
260	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
260	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
268	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH:20 amino acids

SEQUENCE VERIFICATION REPORT

PATENT APPLICATION US/08/383,676

DATE: 03/22/1999
TIME: 13:50:58

INPUT SET: S31123.raw

Line	Error	Original Text
269	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
271	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
271	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
281	Entered (19) and Calc. Seq. Length (0) differ	(A) LENGTH:19 amino acids
282	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
284	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
284	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
294	Entered (18) and Calc. Seq. Length (0) differ	(A) LENGTH:18 amino acids
295	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
297	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
297	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
307	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH:14 amino acids
308	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
310	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
310	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
318	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH:14 amino acids
319	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
321	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
321	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
329	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH:13 amino acids
330	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
332	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
332	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
484	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH:14 amino acids
485	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
487	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:
487	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:
495	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH:14 amino acids
496	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
498	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:
498	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:
650	Entered (51) and Calc. Seq. Length (0) differ	(A) LENGTH:51 amino acids
651	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
653	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:
653	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:
667	Entered (158) and Calc. Seq. Length (0) differ	(A) LENGTH:158 bases
765	Entered (63) and Calc. Seq. Length (0) differ	(A) LENGTH:63 bases
777	Entered (64) and Calc. Seq. Length (0) differ	(A) LENGTH:64 bases
813	Entered (81) and Calc. Seq. Length (0) differ	(A) LENGTH:81 bases
873	Entered (30) and Calc. Seq. Length (18) differ	(A) LENGTH:30 bases
885	Entered (1334) and Calc. Seq. Length (1134) differ	(A) LENGTH:1334 bases
894	# of Sequences for line conflicts w/ running total	TAGCTGTCTG GC
1000	Entered (371) and Calc. Seq. Length (0) differ	(A) LENGTH:371 amino acids
1001	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
1003	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:
1003	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:
1059	Entered (6464) and Calc. Seq. Length (50) differ	(A) LENGTH:6464 bases
1090	Entered (2173) and Calc. Seq. Length (1727) differ	(A) LENGTH:2173 bases

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/383,676DATE: 03/22/1999
TIME: 13:50:59**INPUT SET: S31123.raw**

Line	Error	Original Text
1099	# of Sequences for line conflicts w/ running total	ATG GGT CTC CCC ATC GTG CCT GGC CTG CTG CT
1131	Wrong Nucleic Acid Designator	ATG GAC ACC GTG TGT GGC TGC AAG PAG AkC CA
1131	# of Sequences for line conflicts w/ running total	ATG GAC ACC GTG TGT GGC TGC AAG PAG AkC CA
1155	Wrong Nucleic Acid Designator	GCC GIC CTG TTG CCT CTG GTT ATC TTC CTA GGT
1155	# of Sequences for line conflicts w/ running total	GCC GIC CTG TTG CCT CTG GTT ATC TTC CTA GGT
1224	# of Sequences for line conflicts w/ running total	GGGAAGTGTG CCATCTGCTC CCAGACAGCT GAGGG
1235	Entered (461) and Calc. Seq. Length (0) differ	(A) LENGTH:461 amino acids
1236	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
1238	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:
1238	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:
1415	Entered (340) and Calc. Seq. Length (0) differ	(A) LENGTH:340 amino acids
1416	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
1418	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:
1418	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71: